

ABSTRACT

A power management device (200) and a method for use in a power distribution network (100) receives electrical energy and first determines if the power is a primary or secondary power source. When a secondary power source, the power management device (200) waits in standby mode, but when the power is primary power source the power management device (200) configures itself to route power to another node in the power distribution network (100). Power levels and faults within the network can be monitored and controlled by a central controller. Likewise loads (218, 220) may then be powered on as determined by a central controller to reduce $L \frac{dI}{dt}$ voltage spikes and other undesirable side effects.